

2016 Review

Eddie McCarty
Team Leader, Plant QA Team
Asphalt Technology Division

QC Personnel, Plant & Field

- Plant

- A Certified Plant Tech shall be present at the plant during production AND shipment

- Field

- A Certified Field Tech shall be present at the job site

Estimated Production

- Plant to notify SHA:
 - 24 hrs before production
 - 48 hrs for night work
- Include Contract number and FMIS number
- Be specific with location
- Paving contractors without plants need to be aware of this

2016 HOT MIX ASPHALT PRODUCTION REPORT

TO: The Asphalt Technology Division

ATTENTION: Shanieka Clark

Email form by 1 p.m. the day before State production to:

superpave@sha.state.md.us or FAX: 410-787-0482

Plant Name / Location: _____ Plant # _____

Plant Phone # _____ Plant Fax# _____

Previous Day's State Production

Date: _____

Contract #	Mix #	Tons
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Next Scheduled State Production (Estimated)

Date: _____ (submit by 1:00 p.m.)

Contract #	Mix#	Approx. Tons	Location of Project	Starting Time
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Samples at the Plant that need to be picked up and how many: Liquid Binder Box Samples
Cores Other , Paperwork (HMA-1's, Core Sheets, etc)

Scheduled Mix Verification Date: Time:

Next Scheduled Monthly Scale Check: Date: Time:

Additional Comments:

Company Representative's Name Cert #

For questions/concerns call OMT Asphalt Technology Division (office phone #: 443-572-5118) or Eddie McCarty at (cell phone #: 443-386-9277)

PLANT ID

128 - Francis O. Day

128 - Francis O. Day

128 - Francis O. Day

128 - Francis O. Day

134 - C.J. Miller, LLC

138 - Maryland Paving, Inc.

151 - Reliable Contracting Com

151 - Reliable Contracting Com



PLANT ID	MIX ID	CONTRACT	LOCATION	TIME	TONS	REMARKS
128 - Francis O. Day Co., Inc.	H128B25R4B54	MO1885177	I-495	7:00 PM	100.00	
128 - Francis O. Day Co., Inc.	H128A09A2F03	MO464B51	Mass Avenue	7:00 PM	1000.00	
128 - Francis O. Day Co., Inc.	H128B25R2B53	MO464B51	MD 192	7:00 AM	100.00	
128 - Francis O. Day Co., Inc.	H128B25R4B54	MO1885177	I-495	7:00 PM	400.00	
134 - C.J. Miller, LLC	H134B12B5F16	HO1535277	Route 32	7:00 PM	1000.00	
138 - Maryland Paving, Inc.	H138A09R2C06	BA630D55	Rt 439	9:00 AM	50.00	
151 - Reliable Contracting Com	H151B09R2C01	AA799B55	214,424, Rt 2	9:00 PM	1000.00	
151 - Reliable Contracting Com	H151B12R2C04	CA131A52	521,524 to lowery Rd Driveways	9:00 AM	60.00	
153 - Aggregate Industries, Inc.	H153B12R2C52	SM187B59	Rt 234	7:00 PM	1500.00	
158 - Allan Myers Materials, Inc.	H158B19A2B63	WO636D51	US 113	2:00 AM	40.00	
158 - Allan Myers Materials, Inc.	H158B19A2B63	WO238A55	MD 12 Nassawango Creek to wicomico County line	8:00 AM	600.00	
165 - Aggregate Industries, Inc.	H165A19R2C01	AA1305187	Route 177 @ Woods Road	9:00 AM	350.00	
181 - George & Lynch, Inc.	H181A09A2C01	AW730A21	Rt 349 Nanticoke Rd Salbury	8:00 AM	100.00	

Temperature

- Mix
 - 225° F
- Air & Surface
 - 32° F for Base Mix
 - 40° F for Surface Mix
 - 50° F for Polymer-Modified Binder
- Traffic
 - 140° F



Cores

- $\geq 25\text{mm}$  6" cores
- $\leq 19\text{mm}$  4" or 6" cores
- Random location sheets
 - 500 Ton sublots
 - A&B sheets, project chooses one at end of day
 - Not companion cores
 - Offset...NOT down the center of the lane
 - Attach to completed core sheet
 - Keep cores together and with paperwork
 - Fill core holes

Maryland SHA - Test Locations for HMA Samples

File Help

! ?

Date: 03/15/2017 Maximum Sublot Size: ☒ 200 Tons ☐ 500 Tons

Contract Number: XX123X51 Mix Number: H11812R2C01F

Producer/Location: XYZ

Paving Contractor: ABC

Sampling Method: Core Direction: Increasing

Reference Type: Station Starting Station: 100 + 00

Total Tonnage (tons): 350 Maximum Density (pcf): 150

Lift Thickness (in): 2 Width (ft): 12

Sublot Number	Sublot Beginning Station	Sample Location	
		Station	Offset (Right)

Sample Locations Report Preview

New Print Calculate

Status: 03/15/2017 4:25 PM

Default setting

Maryland SHA - Test Locations for HMA Samples

File

Help

Date

03/15/2017

Maximum Sublot Size:

☒ 200 Tons

☐ 500 Tons

Contract Number

123451

Mix Number

H11812R2C01F

Producer/Location

XYZ

Paving Contractor

ABC

Sampling Method

Core

Direction

Increasing

Reference Type

Station

Starting Station

100

+

00

Total Tonnage (tons)

350

Maximum Density (pcf)

150

Lift Thickness (in)

2

Width (ft)

12

Sublot Number	Sublot Beginning Station	Sample Location	
		Station	Offset (Right)
1	100 + 00	101 + 00	2.4
		107 + 17	10.1
2	107 + 80	108 + 90	2.5
		112 + 48	7
3	115 + 60	118 + 49	4.8
		120 + 16	6.8

Sample Locations

Report Preview

New

Print

Calculate

Status

03/15/2017

4:25 PM

WRONG

Maryland SHA - Test Locations for HMA Samples

File Help



Date: 03/15/2017 Maximum Sublot Size: ☐ 200 Tons ☒ 500 Tons

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Producer/Location: XYZ

Paving Contractor: ABC

Sampling Method: Core Direction: Increasing

Reference Type: Station Starting Station: 100 + 00

Total Tonnage (tons): 350 Maximum Density (pcf): 150

Lift Thickness (in): 2 Width (ft): 12

Sublot Number	Sublot Beginning Station	Sample Location	
		Station	Offset (Right)
1	100 + 00	101 + 79	4.9
2	104 + 67	104 + 97	1.8
3	109 + 34	112 + 21	7.1
4	114 + 01	117 + 79	9
5	118 + 68	120 + 42	4.8

Sample Locations

Report Preview

New

Print

Calculate

Status

03/15/2017

4:27 PM

MARYLAND STATE HIGHWAY ADMINISTRATION
Office of Materials and Technology
Hot Mix Asphalt Test Locations

Page 1

Date: 03/15/2017

Contract Number: XX123X51

Producer/Location: XYZ

Paving Contactor: ABC

Sampling Method: Core

Reference Type: Station

Total Tonnage (tons): 350

Lift Thickness (in): 2

Mix Number: H11812R2C01F

Direction: Increasing

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5	118 + 68	120 + 42	4.8

Number of QA Cores Required . . . 5+





FAS



Density Gauge Readings

- Calibrated Thin Lift Gauge (Nuclear or Non-Nuclear) required anytime we are not paying for material by core results.

Thin Lift Nuclear Gauge?



- Troxler 4640 is the typical nuclear gauge one would see on a paving project.
- Troxler 3450 is the only dual purpose gauge that we accept for Asphalt and must be operated in thin layer mode.
- Troxler 3401, 3411-B, 3430, 3440, and 3440 Plus are not acceptable for asphalt.



OFF ON

Do Not Touch
POI During Reading



POI 380

Improvement Quality Indicator

Trans Tech
TRANSTECH SYSTEMS, INC.

1594 State St. Schenectady, NY 12304
1-800-724-6306 • sales@transtechsys.com
www.transtechsys.com

This system is covered by one or more patents.
All patents are the property of their respective owners.
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Control Menu

POI 380



Project



Modes



Standardize



Units



Mix



Date & Time



Diagnostics



Data Management



Data Logging



Measure

Main Menu



7.7 V

11:30

03/13/17

Non-Nuclear
Asphalt Density Gauge

Mix Samples

- Random
- QC & QA taken independently

Label the Samples

- Completely fill out box label and compaction sheets.
- Label proper tack jug and attach paperwork.

Contract/FMIS#:: _____

Sample was taken: _____ am pm
Date Time (circle one)

Mix: _____

Tonnage (at time of sample): _____

Location (Station/GPS): _____

Comments: _____

Sampled By: _____

SHA Witness: _____

Ton 351.94

Load 16

Date 8/8/16

Time 1:45

Loc Exit Ramp

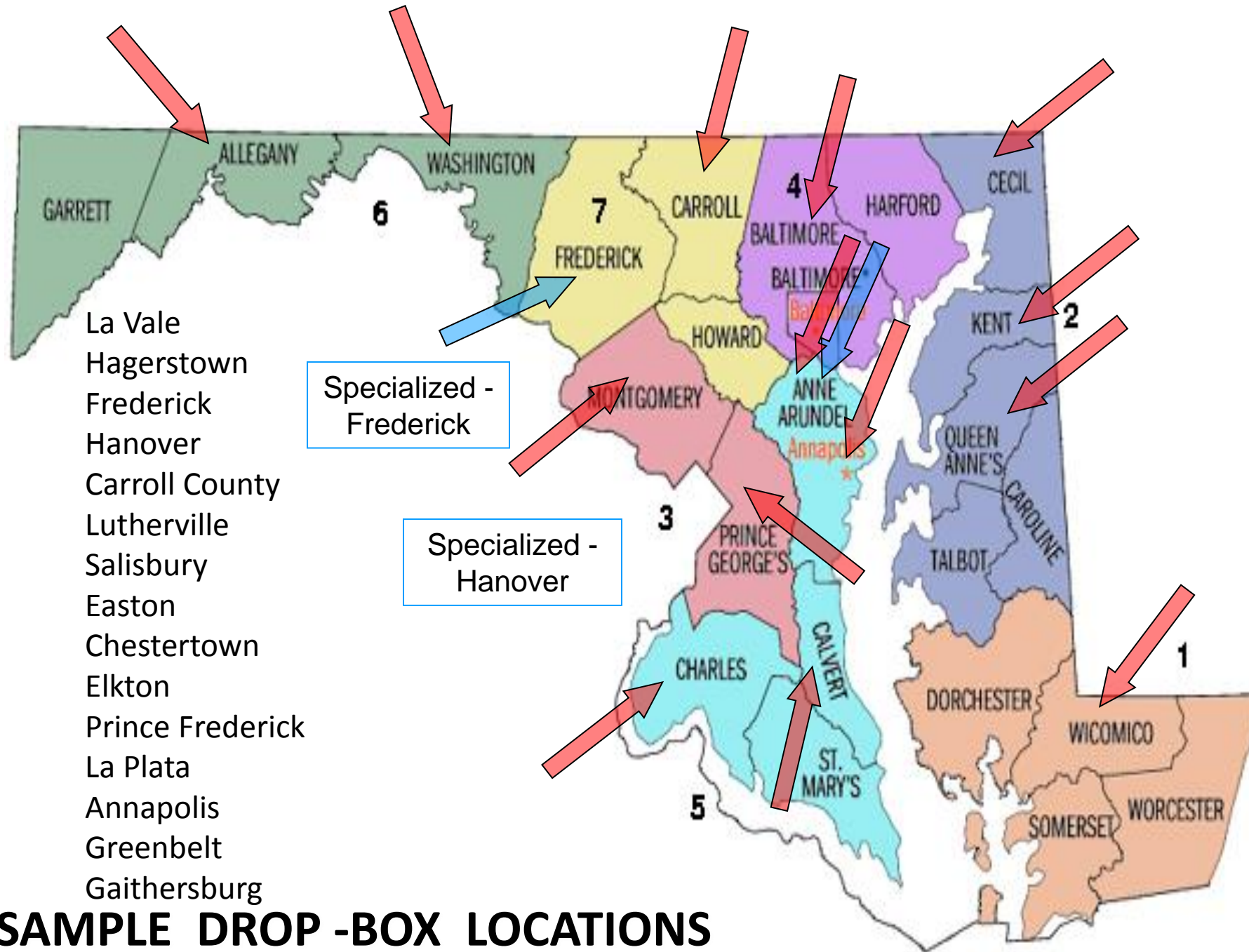
Ijamsville Rd.

5/19/16

North end of bridge

137+00 - 136+60

136+95 R/C



Drop Box Locations...

Statewide Material Sample Box Locations (15 Locations)
Note: All Locations are Maryland State Highway Facilities

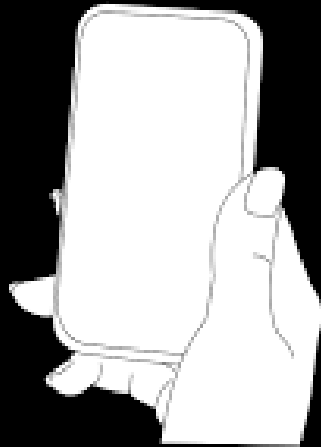
Sample Box Location	Maryland County	Accessible Hours
District 6 Office 1251 Vocke Road LaVale, MD 21502	Allegany	7am – 5pm
District 5 Office 138 Defense Highway Annapolis, MD 21401	Anne Arundel	24 Hours
Office of Materials Technology 7450 Traffic Drive Hanover, MD 21076	Anne Arundel	24 Hours
District 4 Office 2323 West Joppa Road Lutherville, MD 21093	Baltimore	24 Hours
Prince Frederick Maintenance Shop 100 Hallowing Point Road Prince Frederick, MD 20678	Calvert	24 Hours
Elkton Maintenance Shop 2024 E. Old Philadelphia Road Elkton, MD 21921	Cecil	24 Hours
LaPlata Maintenance Shop 5725 Washington Avenue LaPlata, MD 20646	Charles	24 Hours

SHA Salt Dome 5071 Bushey Road Sykesville, MD 21784	Carroll	24 Hours
District 2 Office 615 Morgnec Road Chestertown, MD 21620	Kent	24 Hours
Gaithersburg Maintenance Shop 502 Quince Orchard Road Gaithersburg, MD 20760	Montgomery	24 Hours
District 3 Office MD 201 @ Cherrywood Lane Greenbelt, MD 20770	Prince Georges	24 Hours
Easton Maintenance Shop 8265 Ocean Gateway Easton, MD 21601	Talbot	7am – 5pm
Hagerstown Maintenance Shop 18320 Col. Henry K. Douglas Drive Hagerstown, MD 21704	Washington	24 Hours
District 1 Office 660 West Road Salisbury, MD 21802	Wicomico	7am – 5pm

Tack Application...



Becky's New Phone



















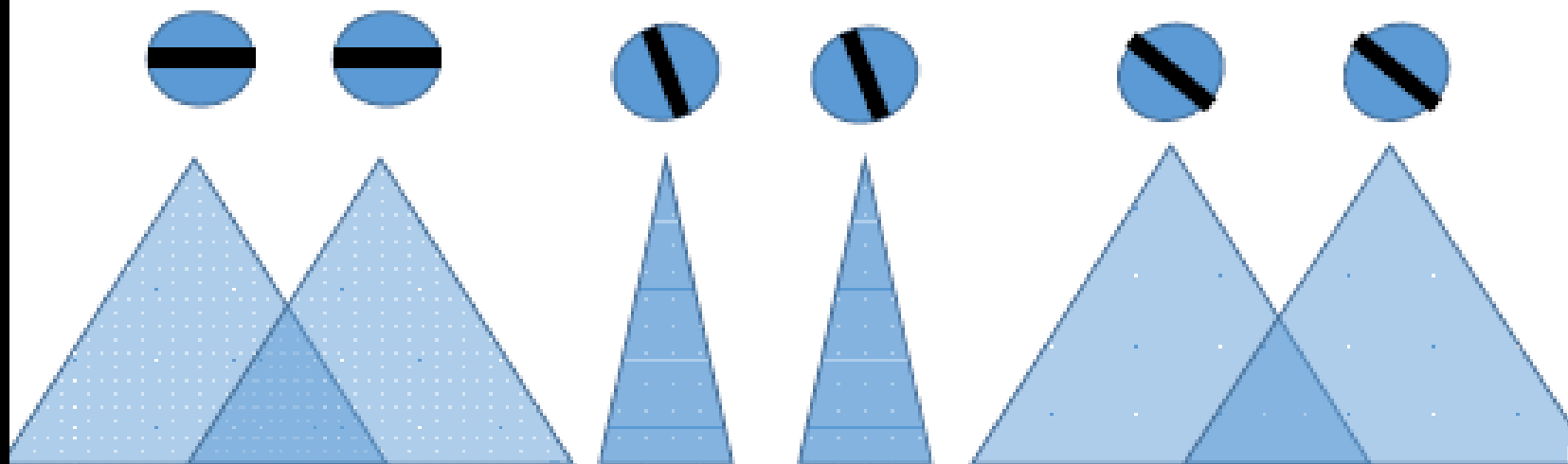








Effect of Nozzle Orientation



Nozzle Selection



Independent Assurance Audits (IA's)

- What is required to maintain your MARTCP card?
 - HMA Plant Level 1 and Level 2
 - IA every calendar year
 - HMA Field
 - 3 IA's / 5 years
 - Must be in different calendar years
 - 1 of the 3 must me in the calendar year your card expires
 - For all certifications...
 - MUST send application and IA receipts to Lisa Alford before card expires
 - E-mail: Lalford@sha.state.md.us Phone: 443-572-5040

Independent Assurance Audits (IA's)

- Update your contact information
 - Update your contact information
 - Update your contact information
-
- Notification letters go out before expiration

MARYLAND STATE HIGHWAY ADMINISTRATION
OFFICE OF MATERIALS TECHNOLOGY
TECHNICIAN CERTIFICATION PROGRAM

Application For: (Please Check Only One)

☐ Certification ☐ Retest
☐ Re-Certification ☐ Information Update
☐ Reciprocal Certification (Attach copy of Certification from another approved Certifying Organization)

(Please Check Only One)

Soils & Aggregate Compaction Tech ☐ HMA Field Technician ☐
Aggregate Technician ☐ HMA Plant Tech. Level 1 ☐
Concrete Field Technician ☐ HMA Plant Tech. Level 2/Superpave ☐
Concrete Plant Technician ☐ Pavement Marking Technician ☐
Inertial Profiler Operator ☐

(PLEASE PRINT CLEARLY)

Technician Name: _____
First MI Last

Home Address: _____

City: _____ State: _____ Zip Code: _____

Home Phone Number: _____ Date of Birth: ____/____/____

Employer's Name: _____

Employer's Address: _____

City: _____ State: _____ Zip Code: _____

Employer Phone Number: _____ Invoice Contact: _____

Comments/Additional Information: _____

Signed: _____ Date: _____

Lisa Alford
Lalford@sha.state.md.us
443-572-5040

ATD Field Contacts

- Chuck Cooley 443-695-0921 D6
- Mike Little 301-473-6082 D3, D5 (south), D7
- Ray Randall 443-643-8378 D2 (CE),D4,D5 (AA), BA City
- Dean Vincent 443-386-9273 D1, D2 (south)
- Larry Riggleman D7
- Gloria Burke 443-386-9266
- Eddie McCarty 443-386-9277
- Becky Smith 443-386-9276
- Bonnie Johnson (Ride): 443-474-2144